

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start		Rating **	A	Issue No.	<b>3</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0008_01_s _ 2017_3				
Comment Code					
Inspector Comment					
District has levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>8</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0008_01_s _ 2013_8				
Comment Code					
Inspector Comment					
District maintains a stockpile of flood fight response material.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				o	
					o	
DWR ID	DWR_NA0008_01_s_2013_9					
Comment Code						
Inspector Comment						
District has written response plan and regular flood fight training.						

No Photos

LM Start	0.01	Rating **	U	Issue No.	36
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.719232°	38.734291°
				-121.664178°	-121.683015°
DWR ID	DWR_NA0008_01_s_2017_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_36\_20170502\_00052.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

LM Start	0.01	Rating **	U	Issue No.	37
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.719232°	38.735153°
				-121.664178°	-121.683813°
DWR ID	DWR_NA0008_01_s_2017_37				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_37\_20170502\_00053.jpg



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	<b>0.25</b>	Rating **	A/W	Issue No.	<b>40</b>
LM End	<b>0.25</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.722222 °	38.722222 °	
			-121.666357 °	-121.666357 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:48010  
DS\_ID:19360  
EP\_NO: 9302  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: Pipe has been grouted in place under permit 18987, 2015 Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch pipe through the levee, 27.0 feet below the crown. Slide gate on the waterward end. 12'X6' Concrete box on the landward end (Permit No. 9302-Elliott). Abandoned by removing ends and pumping pipe full of concrete (Permit No. 18987, 2015). O&M Manual 127, June 1953.  
FS Date: 5/16/2016 3:59:29 PM

LM Start	<b>0.25</b>	Rating **	A/W	Issue No.	<b>40 (cont)</b>
LM End	<b>0.25</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_48010\_21582.jpg



Concrete distribution box on LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_48010\_21581.jpg



Slide gate on metal stand on WS toe. Pipe opening not visible.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	0.25	Rating **	A/W	Issue No.	40 (cont)
LM End	0.25	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.722222 °	38.722222 °
				-121.666357 °	-121.666357 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48010 DS_ID:19360 EP_NO: 9302 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pipe has been grouted in place under permit 18987, 2015Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet. FIELD_STRUCT_DESC: *ABANDONED* 36-inch pipe through the levee, 27.0 feet below the crown. Slide gate on the waterward end. 12'X6' Concrete box on the landward end (Permit No. 9302-Elliott). Abandoned by removing ends and pumping pipe full of concrete (Permit No. 18987, 2015). O&M Manual 127, June 1953. FS Date: 5/16/2016 3:59:29 PM					

Photo 3 of 3 : UCIP\_SP\_2017\_48010\_21580.jpg



Pipe failure at connection to concrete box on LS toe.

LM Start	1.57	Rating **	M	Issue No.	34
LM End	2.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.735153 °	38.748513 °
				-121.683813 °	-121.694825 °
DWR ID	DWR_NA0008_01_s_2017_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	1.57	Rating **	M	Issue No.	35
LM End	2.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.735153 °	38.748513 °
				-121.683814 °	-121.694826 °
DWR ID	DWR_NA0008_01_s _ 2017_35				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.57	Rating **	C	Issue No.	29
LM End	1.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.735164°	38.735164°
				-121.683843°	-121.683843°
DWR ID	DWR_NA0008_01_s _ 2016_29				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.24	Rating **	M	Issue No.	32
LM End	2.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.743013 °	38.743013 °
				-121.691004 °	-121.691004 °
DWR ID	DWR_NA0008_01_s _ 2017_32				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
100' section of sloughing on crown and landside levee slope. LMA placed visqueen, sandbags, and twine to prevent further erosion.					

Photo 1 of 2 : SP\_2017\_NA0008\_256\_32\_20170502\_00049.jpg



View of of sloughing on crown and landside levee slope. Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.24	Rating **	M	Issue No.	32 (cont)	
LM End	2.24	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.743013 °		38.743013 °
				-121.691004 °		-121.691004 °
DWR ID	DWR_NA0008_01_s_2017_32					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
100' section of sloughing on crown and landside levee slope. LMA placed visqueen, sandbags, and twine to prevent further erosion.						

Photo 2 of 2 : SP\_2017\_NA0008\_256\_32\_20170502\_00051.jpg



Addition view of sloughing. Spring 2017.

LM Start	2.58	Rating **	M	Issue No.	44
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.747110 °	38.747110 °
				-121.694415 °	-121.694415 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11067 DS_ID:19364 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker on LS burried or broken off and missing. FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee, 5.4-feet below crown. Pump house on pile structure at the landward toe Siphon breaker on the landward slope. Service pole and anchor at landward toe (Permit No. 9307- Lowe). Originally included in O+M manual (1953). FS Date: 4/5/2013					

Photo 1 of 1 : UCIP\_SP\_2017\_11067\_18431.jpg



Pump and pipe on LS toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	45
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.747204 °	38.747204 °
				-121.694440 °	-121.694440 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:13205  
DS\_ID:19391  
EP\_NO: 9307  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Walkway to actuator slide gate is missing. No method of actuating slide gate.  
FIELD\_STRUCT\_DESC: 2 of 2: 4-foot x 4-foot concrete box culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside end, concrete headwalls on both ends. Service pole and anchor at landward toe. Concrete headwalls on both ends (Permit No. 9307- Lowe).  
FS Date: 4/5/2013

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_13205\_21602.jpg



Slide gate and concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_13205\_21601.jpg



Concrete inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.67	Rating **	A/W	Issue No.	46 (cont)
LM End	2.67	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748391 °	38.748391 °
				-121.694814 °	-121.694814 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:16105  
DS\_ID:19365  
EP\_NO: 9301  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 1 of 2: 18-inch pipe through the levee 6.4-feet below the crown. Siphon breaker on the waterside slope. Pump house mounted on concrete box in irrigation ditch at the landward toe. (Permit No. 9301-RD 730). Originally included in O+M manual (1953).  
FS Date: 4/5/2013

LM Start	<b>2.67</b>	Rating **	A/W	Issue No.	<b>46 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_16105\_27209.jpg



Pumphouse and pipe on LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_16105\_27210.jpg



Siphon breaker on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.67	Rating **	A/W	Issue No.	47
LM End	2.67	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748404 °	38.748404 °
				-121.694818 °	-121.694818 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:16106  
DS\_ID:19392  
EP\_NO: 9301  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 2 of 2: 24-inch pipe through the levee 7.3-feet below the crown. Pump house mounted on concrete box in irrigation ditch at the landward toe. Siphon breaker in riser on WS slope. (Permit No. 9301-RD 730). Originally included in O+M manual (1953).  
FS Date: 4/5/2013

LM Start	<b>2.67</b>	Rating **	A/W	Issue No.	<b>47 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_16106\_27213.jpg



Pumphouse and pipe on LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_16106\_27212.jpg



Siphon breaker on WS slope

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.67	Rating **	A/W	Issue No.	47 (cont)
LM End	2.67	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748404 °	38.748404 °
				-121.694818 °	-121.694818 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16106					
DS_ID:19392					
EP_NO: 9301					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 2 of 2: 24-inch pipe through the levee 7.3-feet below the crown. Pump house mounted on concrete box in irrigation ditch at the landward toe. Siphon breaker in riser on WS slope. (Permit No. 9301-RD 730). Originally included in O+M manual (1953).					
FS Date: 4/5/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_16106\_27214.jpg



Pipe on WS slope.

LM Start	2.70	Rating **	A/W	Issue No.	49
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748909 °	38.748909 °
				-121.694811 °	-121.694811 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11244					
DS_ID:19394					
EP_NO: 8752					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 1 of 2: 30-inch steel asphalt coated storm drain pipe through the levee 3.0-feet below the crown. Siphon breaker on pipe WS shoulder and a pump on a steel pile structure at the LS toe. Some design drawings available. (Permit No. 8752, 1973)					
FS Date: 4/5/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_11244\_18603.jpg



Pump on steel pile structure at LS toe with pipe on slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.70	Rating **	A/W	Issue No.	49 (cont)
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748909 °	38.748909 °
				-121.694811 °	-121.694811 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11244 DS_ID:19394 EP_NO: 8752 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 30-inch steel asphalt coated storm drain pipe through the levee 3.0-feet below the crown. Siphon breaker on pipe WS shoulder and a pump on a steel pile structure at the LS toe. Some design drawings available. (Permit No. 8752, 1973) FS Date: 4/5/2013					

Photo 2 of 2 : UCIP\_SP\_2017\_11244\_18602.jpg



Siphon breaker on pipe at WS slope.

LM Start	2.71	Rating **	A/W	Issue No.	50
LM End	2.71	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.748929 °	38.748929 °
				-121.694749 °	-121.694749 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11247 DS_ID:19395 EP_NO: 8752 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch pipe through the levee 3.0-feet below the crown. Siphon breaker on pipe on WS shoulder with a pump on a steel pile structure at the LS toe. Butterfly shutoff valve at LS toe. Some design drawings available. (Permit No. 8752, 1973). FS Date: 4/5/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_11247\_18605.jpg



Pump on steel pile structure with butterfly valve and pipe on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.71	Rating **	U	Issue No.	39
LM End	6.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.748968 °	38.792390 °
				-121.694803 °	-121.726538 °
DWR ID	DWR_NA0008_01_s_2017_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_39\_20170502\_00055.jpg



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

LM Start	3.36	Rating **	M	Issue No.	2
LM End	3.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.758432 °	38.759332 °
				-121.695158 °	-121.696063 °
DWR ID	DWR_NA0008_01_s_2016_2				
Comment Code					
Inspector Comment					
2011 - Toe scour and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-5_R]					

No Photos

LM Start	3.50	Rating **	U	Issue No.	20
LM End	3.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.759910 °	38.759910 °
				-121.696920 °	-121.696920 °
DWR ID	DWR_NA0008_01_f_2015_20				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP\_2017\_NA0008\_256\_20\_20170320\_00007.jpg



Deep erosion at the bottom of the waterside slope 3-4 foot cut. Fall 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.50	Rating **	U	Issue No.	20 (cont)	
LM End	3.50	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.759910 °		38.759910 °
				-121.696920 °		-121.696920 °
DWR ID	DWR_NA0008_01_f_2015_20					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 2 of 2 : SP\_2017\_NA0008\_256\_20\_20170320\_00008.jpg



View of the erosion on the waterward side of the levee looking upstream. Fall 2015.

LM Start	3.78	Rating **	U	Issue No.	30
LM End	3.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762886 °	38.762886 °
				-121.700406 °	-121.700406 °
DWR ID	DWR_NA0008_01_s_2017_30				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Hole is at the toe of the levee on the waterward side.					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_30\_20170320\_00014.jpg



View of the erosion at the toe of the levee on the waterward side. Spring 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.84	Rating **	A/W	Issue No.	15
LM End	3.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.763460 °	38.763460 °
				-121.701097 °	-121.701097 °
DWR ID	DWR_NA0008_01_f_2016_15				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Monitor trees that pose a future threat to the integrity of the levee.					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_15\_20170320\_00003.jpg



View of an old tree on waterward side of the levee. Subject to monitor. Fall 2016.

LM Start	3.86	Rating **	M	Issue No.	31
LM End	3.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.763751 °	38.763751 °
				-121.701398 °	-121.701398 °
DWR ID	DWR_NA0008_01_s_2016_31				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion at the toe of the levee. LMA is monitoring erosion with stakes.					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_31\_20170320\_00015.jpg



View of the erosion at the toe of the levee on the waterward side. Spring 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.88	Rating **	M	Issue No.	1
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.764037 °	38.764905 °
				-121.701434 °	-121.702074 °
DWR ID	DWR_NA0008_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Toe erosion and erosion pockets from tree popouts. More tree popouts are expected due to the eroding toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-9_R]					

No Photos

LM Start	4.28	Rating **	M	Issue No.	21	
LM End	4.28	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.769608 °		38.769608 °
				-121.703076 °		-121.703076 °
DWR ID	DWR_NA0008_01_f_2015_21					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 1 of 1 : SP\_2017\_NA0008\_256\_21\_20170320\_00009.jpg



View of the rodent holes on the waterward side of the levee looking upstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	05/02/2017 05/02/2017	Zach Jojola

LM Start	6.23	Rating **	M	Issue No.	24
LM End	6.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.791286 °	38.791286 °
				-121.725034 °	-121.725034 °
DWR ID	DWR_NA0008_01_f_2015_24				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Ground squirrels are seen in this area.					

Photo 1 of 1 : SP\_2017\_NA0008\_256\_24\_20170320\_00011.jpg



View of the rodent holes on the waterward side of the levee looking downstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	0.00	Rating **	U	Issue No.	24
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724264 °	38.748280 °
				-121.665315 °	-121.692666 °
DWR ID	DWR_NA0008_02_s_2017_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_257\_24\_20170502\_00029.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

LM Start	0.00	Rating **	U	Issue No.	26
LM End	2.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724264 °	38.748280 °
				-121.665315 °	-121.692666 °
DWR ID	DWR_NA0008_02_s_2017_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_257\_26\_20170502\_00030.jpg



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	2.30	Rating **	U	Issue No.	17
LM End	5.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.748868 °	38.792633 °
				-121.692798 °	-121.724010 °
DWR ID	DWR_NA0008_02_s_2017_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_257\_17\_20170502\_00028.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

LM Start	2.30	Rating **	U	Issue No.	15
LM End	5.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.748868 °	38.792633 °
				-121.692798 °	-121.724011 °
DWR ID	DWR_NA0008_02_s_2017_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_257\_15\_20170502\_00027.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

No Photos

No Photos

Page 3 of 11

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.60	Rating **	M	Issue No.	3
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.765522 °	38.767336 °
				-121.700608 °	-121.701023 °
DWR ID	DWR_NA0008_02_s_2016_3				
Comment Code					
Inspector Comment					
2011 - The toe has eroded away and there are a few scallops from bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-7_L]					

No Photos

LM Start	3.93	Rating **	A/W	Issue No.	231
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770317 °	38.770317 °
				-121.701281 °	-121.701281 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:11293					
DS_ID:19374					
EP_NO: 9317					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 1 of 2: 16-inch steel discharge pipe through the levee, 3.0-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker on the pipe on the waterward side. Service pole on pump house (Permit No. 9317-RD 819) Originally included in O+M manual 1953.					
FS Date: 4/9/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_11293\_18675.jpg



Pump on LS toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	231 (cont)
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770317 °	38.770317 °
				-121.701281 °	-121.701281 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:11293  
DS\_ID:19374  
EP\_NO: 9317  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 1 of 2: 16-inch steel discharge pipe through the levee, 3.0-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker on the pipe on the waterward side. Service pole on pump house (Permit No. 9317-RD 819) Originally included in O+M manual 1953.  
FS Date: 4/9/2013

LM Start	<b>3.93</b>	Rating **	A/W	Issue No.	<b>231 (cont)</b>
LM End	<b>3.93</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_11293\_18674.jpg



Pump and pipes on LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_11293\_18673.jpg



16-inch pipe with siphon breaker on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.	232
LM End	3.94	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770335 °	38.770335 °
				-121.701286 °	-121.701286 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:11291  
DS\_ID:19401  
EP\_NO: 9317  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 2 of 2: 24-inch steel discharge pipe through the levee, 9.0-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker on the pipe on the waterward side with a butterfly shutoff valve. Service pole at pump house (Permit No. 9317-RD 819) Originally included in O+M manual 1953. Pipe replaced 2012.  
FS Date: 4/9/2013

LM Start	<b>3.94</b>	Rating **	A/W	Issue No.	<b>232 (cont)</b>
LM End	<b>3.94</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_11291\_18669.jpg



Pumphouse at LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_11291\_18668.jpg



Pipe in grass on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.	232 (cont)	
LM End	3.94	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.770335 °		38.770335 °
				-121.701286 °		-121.701286 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:11291						
DS_ID:19401						
EP_NO: 9317						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 2 of 2: 24-inch steel discharge pipe through the levee, 9.0-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker on the pipe on the waterward side with a butterfly shutoff valve. Service pole at pump house (Permit No. 9317-RD 819) Originally included in O+M manual 1953. Pipe replaced 2012.						
FS Date: 4/9/2013						

Photo 3 of 3 : UCIP\_SP\_2017\_11291\_18667.jpg



Siphon breaker and butterfly valve on WS shoulder.

LM Start	4.07	Rating **	M	Issue No.	25
LM End	4.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.772269 °	38.772269 °
				-121.701869 °	-121.701869 °
DWR ID	DWR_NA0008_02_s_2017_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Beaver den on waterside levee slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	4.30	Rating **	M	Issue No.	4
LM End	4.55	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.775271 °	38.778115 °
				-121.703685 °	-121.706195 °
DWR ID	DWR_NA0008_02_s_2016_4				
Comment Code					
Inspector Comment					
2011 - This site is the downstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_4-7_L]					

No Photos

LM Start	5.34	Rating **	M	Issue No.	13
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.786504 °	38.786504 °
				-121.716261 °	-121.716261 °
DWR ID	DWR_NA0008_02_f_2016_13				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_NA0008\_257\_13\_20170320\_00002.jpg



View of a rodent hole on LS slope. Fall 2016.

LM Start	5.36	Rating **	M	Issue No.	6
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.786566 °	38.792395 °
				-121.716724 °	-121.724091 °
DWR ID	DWR_NA0008_02_s_2016_6				
Comment Code					
Inspector Comment					
2011 - This site is the upstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_5-8_L]					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	5.55	Rating **	M	Issue No.	23
LM End	5.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.788656 °	38.788656 °
				-121.719000 °	-121.719000 °
DWR ID	DWR_NA0008_02_s_2017_23				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	5.66	Rating **	U	Issue No.	16
LM End	5.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.789794 °	38.789794 °
				-121.720338 °	-121.720338 °
DWR ID	DWR_NA0008_02_f_2015_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2017\_NA0008\_257\_16\_20170320\_00003.jpg



There seems to be more than 2 cubic feet of material on the landward side of the levee. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	5.66	Rating **	U	Issue No.	16 (cont)	
LM End	5.66	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.789794 °		38.789794 °
				-121.720338 °		-121.720338 °
DWR ID	DWR_NA0008_02_f_2015_16					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2017\_NA0008\_257\_16\_20170320\_00004.jpg



Perspective view of the animal hole on the landward side of the levee looking downstream. Fall 2015.

LM Start	5.72	Rating **	M	Issue No.	19
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.790385 °	38.790385 °
				-121.721131 °	-121.721131 °
DWR ID	DWR_NA0008_02_f_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	05/02/2017 05/02/2017	Zach Jojola

LM Start	<b>5.80</b>	Rating **	C	Issue No.	<b>12</b>
LM End	<b>5.80</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.791253 °	38.791253 °	
			-121.722250 °	-121.722250 °	
DWR ID	DWR_NA0008_02_f_2016_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement